# **PCT**

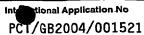
HECEIVED 2 0 JUL 2004

INTERNATIONAL SEARCH REPORT

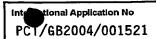
WIPO PCT

(PCT Article 18 and Rules 43 and 44)

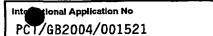
Applicant's or agent's file reference	FOR FURTHER ACTION as well	see Form PCT/ISA/220 I as, where applicable, item 5 below.
P3159 WO ORD International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
monagona approacon rec		
PCT/GB2004/001521	08/04/2004	09/04/2003
Applicant		
AOTI OPERATING COMPANY, I	NC.	
according to Article 18. A copy is being tr		hority and is transmitted to the applicant
	s of a total ofsheets.  y a copy of each prior art document cited in this	s report.
Basis of the report     a. With regard to the language, the language in which it was filed, ur	international search was carried out on the bailess otherwise indicated under this item.	sis of the international application in the
this Authority (Ru	ale 23.1(b)).	lation of the international application furnished t
b. With regard to any <b>nucl</b> e	otide and/or amino acid sequence disclosed	d in the International application, see Box No. I.
2. Certain claims were for	und unsearchable (See Box II).	
3. Unity of invention is la	cking (see Box III).	
4. With regard to the title,	when the drive the analtemat	
1 =	submitted by the applicant.  shed by this Authority to read as follows:	
. <u> </u>	APPARATUS METAL PARTICULATE:	S ON SEMICONDUCTORS
5. With regard to the abstract,		
	submitted by the applicant.	rity as it annears in Boy No. IV. The applicant
the text has been estable may, within one month f	ished, according to Rule 38.2(b), by this Autho rom the date of mailing of this international sea	arch report, submit comments to this Authority.
6. With regards to the drawings,		
<del></del>	published with the abstract is Figure No4.	<u>A</u>
as suggested by	•	uggoet a faure
<u> </u>	his Authority, because the applicant failed to so his Authority, because this figure better charac	
<u> </u>	be published with the abstract.	The state of the s



A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N21/64 G01N21/95 G01R31/265 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) GO1N GO1R Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° WO 02/29883 A (HIGGS VICTOR; AOTI 1-19 X OPERATING COMPANY INC (US)) 11 April 2002 (2002-04-11) page 16 -page 18; figure 5 1-19 WO 02/077621 A (HIGGS VICTOR ; AOTI A OPERATING COMPANY INC (US)) 3 October 2002 (2002-10-03) page 6 -page 8; claims 2,3 page 14 -page 16 1-19 PATENT ABSTRACTS OF JAPAN Α vol. 2003, no. 06, 3 June 2003 (2003-06-03) & JP 2003 045928 A (SHIN ETSU HANDOTAI CO LTD), 14 February 2003 (2003-02-14) abstract; figure 9 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but dited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or in the art \*P\* document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of mailing of the International search report Date of the actual completion of the international search 22/07/2004 14 July 2004 **Authorized officer** Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Mason, W



		FC1/6B2004/001321		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Fieldvall in California.		
A	WO 98/11425 A (BIO RAD MICROMEASUREMENTS LTD ;MAYES IAN CHRISTOPHER (GB); HIGGS V) 19 March 1998 (1998-03-19) page 16, line 7-11	1-19		
A	WESTRATE S ET AL: "PHOTOLUMINESCENCE MAPPING DETECTS CU CONTAMINATION IN SI WAFERS" SOLID STATE TECHNOLOGY, COWAN PUBL.CORP. WASHINGTON, US, vol. 45, no. 2, February 2002 (2002-02), pages 57-58, XP001092608 ISSN: 0038-111X page 58, line 1,2	1-19		
Α	HIGGS V ET AL: "Application of room temperature photoluminescence for the characterization of impurities and defects in silicon" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 3895, 13 September 1999 (1999-09-13), pages 21-37, XP002187098 ISSN: 0277-786X page 24-26	1-19		
Α	COMMERE B ET AL: "Control of the Fabrication Steps of InP MIS Transistors by Means of Scanning Photoluminescence Measurements" JOURNAL DE PHYSIQUE. COLLOQUE, PARIS, FR, vol. 49, no. C-4, SUPPL 9, September 1988 (1988-09), pages 431-436, XP009017749 ISSN: 0449-1947 page 432, line 1-27	1-19		
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10, 17 November 2000 (2000-11-17) & JP 2000 193597 A (SUMITOMO METAL IND LTD), 14 July 2000 (2000-07-14) abstract; figure 1	1-19		
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 274257 A (SHIN ETSU HANDOTAI CO LTD), 8 October 1999 (1999-10-08) abstract; figure 2	1-19		



		PCT/GB2004/001521		
C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.	
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 03, 30 March 2000 (2000-03-30) & JP 11 354599 A (MEMC KK), 24 December 1999 (1999-12-24) abstract; figure 4		1-19	
A	abstract; figure 4  HIGGS V: "Characterization of Si, SiGe and SOI Structures using Photoluminescence" MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS, MATERIALS RESEARCH SOCIETY, PITTSBURG, PA, US, vol. 588, 2000, pages 129-140, XP009017743 ISSN: 0272-9172 figures 2,12		1-19	

Information on patent family members

intentional Application No PCT/GB2004/001521

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0229883	A	11-04-2002	AU CN EP WO JP US	9211001 A 1479944 T 1323188 A1 0229883 A1 2004511104 T 2004106217 A1	15-04-2002 03-03-2004 02-07-2003 11-04-2002 08-04-2004 03-06-2004
WO 02077621	A	03-10-2002	EP WO US	1373869 A1 02077621 A1 2004092042 A1	02-01-2004 03-10-2002 13-05-2004
JP 2003045928	Α	14-02-2003	NONE		
WO 9811425	A	19-03-1998	AU DE DE EP WO JP JP KR	4126997 A 69718917 D1 69718917 T2 0925497 A1 9811425 A1 3440421 B2 2001500613 T 2000035954 A	02-04-1998 13-03-2003 19-02-2004 30-06-1999 19-03-1998 25-08-2003 16-01-2001 26-06-2000
JP 2000193597	Α	14-07-2000	NONE		
JP 11274257 7	Α		NONE		
JP 11354599 7	Α		NONE		